



Image

2815

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Leonard Forbes et al.

Title:

CIRCUITS WITH A TRENCH CAPACITOR HAVING MICRO-ROUGHENED SEMICONDUCTOR SURFACES

Docket No.: 303.389US2

Serial No.: 09/467992

Filed: December 20, 1999

Due Date: March 16, 2004

Examiner: Eugene Lee

Group Art Unit: 2815

MS Non-Fee Amendment

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

- ☒ A return postcard.
- ☒ An Amendment and Response (13 Pages).
- ☒ A Communication Concerning Related Applications (7 pgs.).
- ☒ Formal Drawings (5 pgs.).
- ☒ A copy of the Preliminary Amendment filed October 9, 2003 (with returned PTO stamped postcard) (13 pgs.).

Please consider this a **PETITION FOR EXTENSION OF TIME** for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

Customer Number 21186

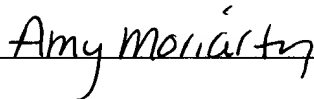
By: 

Atty: Viet V. Tong

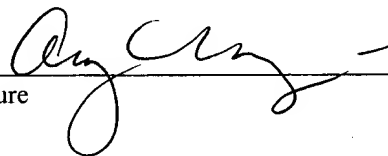
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CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Non-Fee Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 16th day of March, 2004.

Name



Signature



SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

(GENERAL)

S/N 09/467992

PATENT

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Applicant: Leonard Forbes et al.

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TITLE
CIRCUITS WITH A TRENCH CAPACITOR HAVING MICRO-ROUGHENED
SEMICONDUCTOR SURFACES



COMMUNICATION CONCERNING RELATED APPLICATION(S)

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Applicants would like to bring to the Examiner's attention the following related application(s) in the above-identified patent application:

<u>Serial/Patent No.</u>	<u>Filing Date</u>	<u>Attorney Docket</u>	<u>Title</u>
08/889463 6072209	July 8, 1997	303.322US1	FOUR F2 FOLDED BIT LINE DRAM CELL STRUCTURE HAVING BURIED BIT AND WORD LINES
09/527981 6689660	March 17, 2000	303.322US2	FOUR F2 FOLDED BIT LINE DRAM CELL STRUCTURE HAVING BURIED BIT AND WORD LINES
09/571352 6476434	May 16, 2000	303.322US3	FOUR F2 FOLDED BIT LINE DRAM CELL STRUCTURE HAVING BURIED BIT AND WORD LINES
08/889395 6191470	July 8, 1997	303.323US1	SEMICONDUCTOR-ON-INSULATOR MEMORY CELL WITH BURIED WORD AND BODY LINES
09/510095 6465298	February 22, 2000	303.323US2	SEMICONDUCTOR-ON-INSULATOR MEMORY CELL WITH BURIED WORD AND BODY LINES
08/889462 6150687	July 8, 1997	303.328US1	MEMORY CELL HAVING A VERTICAL TRANSISTOR WITH BURIED SOURCE/DRAIN AND DUAL GATES

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09/139164 6350635	August 24, 1998	303.328US2	MEMORY CELL HAVING A VERTICAL TRANSISTOR WITH BURIED SOURCE/DRAIN AND DUAL GATES
09/596266 6399979	June 16, 2000	303.328US3	MEMORY CELL HAVING A VERTICAL TRANSISTOR WITH BURIED SOURCE/DRAIN AND DUAL GATES
09/651199 6504201	August 30, 2000	303.328US4	MEMORY CELL HAVING A VERTICAL TRANSISTOR WITH BURIED SOURCE/DRAIN AND DUAL GATES
08/889396 5909618	July 8, 1997	303.329US1	METHOD OF MAKING MEMORY CELL WITH VERTICAL TRANSISTOR AND BURIED WORD AND BODY LINES
09/031620 6104061	February 27, 1998	303.329US2	MEMORY CELL WITH VERTICAL TRANSISTOR AND BURIED WORD AND BODY LINES
09/520649 6191448	March 7, 2000	303.329US3	MEMORY CELL WITH VERTICAL TRANSISTOR AND BURIED WORD AND BODY LINES
09/789274 6492233	February 20, 2001	303.329US4	MEMORY CELL WITH VERTICAL TRANSISTOR AND BURIED WORD AND BODY LINES
08/889554 5973356	July 8, 1997	303.330US1	ULTRA HIGH DENSITY FLASH MEMORY
09/035304 6238976	February 27, 1998	303.330US2	A METHOD FOR FORMING HIGH DENSITY FLASH MEMORY
09/866938	May 29, 2001	303.330US3	ULTRA HIGH DENSITY FLASH MEMORY
08/889553 5936274	July 8, 1997	303.342US1	HIGH DENSITY FLASH MEMORY

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09/137328 6143636	August 20, 1998	303.342US2	HIGH DENSITY FLASH MEMORY
08/939742 6066869	October 6, 1997	303.379US1	CIRCUIT AND METHOD FOR A FOLDED BIT LINE MEMORY CELL WITH VERTICAL TRANSISTOR AND TRENCH CAPACITOR
09/551027	April 17, 2000	303.379US2	CIRCUIT AND METHOD FOR A FOLDED BIT LINE MEMORY CELL WITH VERTICAL TRANSISTOR AND TRENCH CAPACITOR
08/944890 6528837	October 6, 1997	303.380US1	CIRCUIT AND METHOD FOR AN OPEN BIT LINE MEMORY CELL WITH A VERTICAL TRANSISTOR AND TRENCH PLATE TRENCH CAPACITOR
09/143606 6156604	August 31, 1998	303.380US2	METHOD FOR MAKING AN OPEN BIT LINE MEMORY CELL WITH A VERTICAL TRANSISTOR AND TRENCH PLATE TRENCH CAPACITOR
09/730245 6610566	December 5, 2000	303.380US3	CIRCUIT AND METHOD FOR AN OPEN BIT LINE MEMORY CELL WITH A VERTICAL TRANSISTOR AND TRENCH PLATE TRENCH CAPACITOR
09/010729 6025225	January 22, 1998	303.389US1	CIRCUITS WITH A TRENCH CAPACITOR HAVING MICRO- ROUGHENED SEMICONDUCTOR SURFACES AND METHODS FOR FORMING THE SAME
08/944312 5914511	October 6, 1997	303.391US1	CIRCUIT AND METHOD FOR A FOLDED BIT LINE MEMORY USING TRENCH PLATE CAPACITOR CELLS WITH BODY BIAS CONTACTS

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09/138796 6156607	August 24, 1998	303.391US2	METHOD FOR A FOLDED BIT LINE MEMORY USING TRENCH PLATE CAPACITOR CELLS WITH BODY BIAS CONTACTS
08/939732 5907170	October 6, 1997	303.393US1	CIRCUIT AND METHOD FOR AN OPEN BIT LINE MEMORY CELL WITH A VERTICAL TRANSISTOR AND TRENCH PLATE TRENCH CAPACITOR
09/138794 6165836	August 24, 1998	303.393US2	CIRCUIT AND METHOD FOR AN OPEN BIT LINE MEMORY CELL WITH A VERTICAL TRANSISTOR AND TRENCH PLATE TRENCH CAPACITOR
09/742568 6537871	December 20, 2000	303.393US3	CIRCUIT AND METHOD FOR AN OPEN BIT LINE MEMORY CELL WITH A VERTICAL TRANSISTOR AND TRENCH PLATE TRENCH CAPACITOR
09/028249 5963469	February 24, 1998	303.399US1	VERTICAL BIPOLAR READ ACCESS FOR LOW VOLTAGE MEMORY CELL
09/328074 6317357	June 8, 1999	303.399US2	VERTICAL BIPOLAR READ ACCESS FOR LOW VOLTAGE MEMORY CELL
09/031621 5991225	February 27, 1998	303.405US1	PROGRAMMABLE MEMORY ADDRESS DECODE ARRAY WITH VERTICAL TRANSISTORS
09/313049 6153468	May 17, 1999	303.405US2	PROGRAMMABLE MEMORY ADDRESS DECODE ARRAYS WITH VERTICAL TRANSISTOR
09/669281 6597037	September 26, 2000	303.405US3	PROGRAMMABLE MEMORY ADDRESS DECODE ARRAYS WITH VERTICAL TRANSISTOR

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09/032617 6124729	February 27, 1998	303.406US1	FIELD PROGRAMMABLE LOGIC ARRAYS WITH VERTICAL TRANSISTORS
09/520494 6486027	March 8, 2000	303.406US2	FIELD PROGRAMMABLE LOGIC ARRAYS WITH VERTICAL TRANSISTORS
09/129047 6208164	August 4, 1998	303.407US1	PROGRAMMABLE LOGIC ARRAY WITH VERTICAL TRANSISTORS
09/756089 6515510	January 8, 2001	303.407US2	PROGRAMMABLE LOGIC ARRAY WITH VERTICAL TRANSISTORS
09/756099 6486703	January 8, 2001	303.407US3	PROGRAMMABLE LOGIC ARRAY WITH VERTICAL TRANSISTORS
09/128848 6134175	August 4, 1998	303.408US1	MEMORY ADDRESS DECODE ARRAY WITH VERTICAL TRANSISTORS
09/650600 6498065	August 30, 2000	303.408US2	MEMORY ADDRESS DECODE ARRAY WITH VERTICAL TRANSISTORS
09/028805 6242775	February 24, 1998	303.410US1	CIRCUITS AND METHODS USING VERTICAL, COMPLEMENTARY TRANSISTORS
09/514493 6294418	February 29, 2000	303.410US2	CIRCUITS AND METHODS USING VERTICAL, COMPLEMENTARY TRANSISTORS
09/028807 6246083	February 24, 1998	303.412US1	VERTICAL GAIN CELL AND ARRAY FOR A DYNAMIC RANDOM ACCESS MEMORY AND METHOD FOR FORMING THE SAME
09/879592	June 12, 2001	303.412US2	VERTICAL GAIN CELL AND ARRAY FOR A DYNAMIC RANDOM ACCESS MEMORY AND METHOD FOR FORMING THE SAME

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09/879602 6680864	June 12, 2001	303.412US3	VERTICAL GAIN CELL AND ARRAY FOR A DYNAMIC RANDOM ACCESS MEMORY AND METHOD FOR FORMING THE SAME
09/028727 6304483	February 24, 1998	303.462US1	CIRCUITS AND METHODS FOR A STATIC RANDOM ACCESS MEMORY USING VERTICAL TRANSISTORS
09/060048 6043527	April 14, 1998	303.464US1	CIRCUITS AND METHODS FOR A MEMORY CELL WITH A TRENCH PLATE TRENCH CAPACITOR AND A VERTICAL BIPOLAR READ DEVICE
09/498433 6381168	February 4, 2000	303.464US2	CIRCUITS AND METHODS FOR A MEMORY CELL WITH A TRENCH PLATE TRENCH CAPACITOR AND A VERTICAL BIPOLAR READ DEVICE
09/916759 6429065	July 27, 2001	303.464US3	CIRCUITS AND METHODS FOR A MEMORY CELL WITH A TRENCH PLATE TRENCH CAPACITOR AND A VERTICAL BIPOLAR READ DEVICE
09/916769 6418050	July 27, 2001	303.464US4	CIRCUITS AND METHODS FOR A MEMORY CELL WITH A TRENCH PLATE TRENCH CAPACITOR AND A VERTICAL BIPOLAR READ DEVICE
09/916768 6434041	July 27, 2001	303.464US5	CIRCUITS AND METHODS FOR A MEMORY CELL WITH A TRENCH PLATE TRENCH CAPACITOR AND A VERTICAL BIPOLAR READ DEVICE
10/230244	August 28, 2002	303.406US3	FIELD PROGRAMMABLE LOGIC ARRAYS WITH VERTICAL TRANSISTORS
10/305549	November 26, 2002	303.408US3	MEMORY ADDRESS DECODE ARRAY WITH VERTICAL TRANSISTORS

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10/361986	February 11, 2003	303.380US4	CIRCUIT AND METHOD FOR AN OPEN BIT LINE MEMORY CELL WITH A VERTICAL TRANSISTOR AND TRENCH PLATE TRENCH CAPACITOR
10/738449	December 16, 2003	303.412US4	VERTICAL GAIN CELL AND ARRAY FOR A DYNAMIC RANDOM ACCESS MEMORY AND METHOD FOR FORMING THE SAME

Respectfully submitted,

LEONARD FORBES ET AL.

By Applicants' Representatives,

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CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 16th day of March, 2004.

Name

Amy Moriarty

Signature

